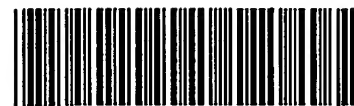


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**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/553, 436
Source: PCT
Date Processed by STIC: 10/28/2005

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 4 Macina, Roberto
 5 Turner, Leah R.
 6 Sun, Yongming
 7 Tam, Albert
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437 gggccgcccc acacctgcc cccaagccat gtggtaggga cagatgtcgt cttgaggagc 1980
439 agcagtaatt acaagcttac tgtcagcgt ccctggaagc aagggccagg tcaggtcaga 2040
441 caggaggccg cctggctggc gggaaccact cccagacag agactgtgcc cagtctggg 2100
443 tccctctca tttgggatga actgggcctc cctgtgccag cctcggtgct gccctgcc 2160
445 agtgcaggct tgggtcctc actcatttgt ccacgcggat gcccattcc aagcagatgt 2220
447 ccccgagcca ctacccaac aggcagacgt gccagcactg ttcgtggtgt gcaactggtc 2280
449 tggcggggag agccccctcg gggcagaggg tccagagagg tgcggtttgc ccacatttg 2340
451 ggggcaactg gccacagtgg gcaggggagc acgtggccag tgccctgggc taggagaggg 2400
453 ataaagtcat ctgtggccaa gcagaagcag tattgcaggg gaagggtggg gagagactgt 2460
455 gctatgagct ctgagcagga ggcaggacat ggagagaagg gtgggagacg gacagagcca 2520

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/553,436

DATE: 10/28/2005
TIME: 10:13:30

Input Set : N:\RJAVED\10553436.txt
Output Set: N:\CRF4\10282005\J553436.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; N Pos. 896
Seq#:28; N Pos. 18,108
Seq#:39; N Pos. 321,322,351,357,358,376,400,409,430,446,461,478
Seq#:73; N Pos. 51,67,95,101,118,123,165,194,199,249,343,352,388,420,458
Seq#:73; N Pos. 488,525,533,535,538
Seq#:74; N Pos. 23,61,62,70,83,93,106,128,129,131,135,173,180,344,358,361
Seq#:74; N Pos. 363,365,370,372,373,378,383,416,447,464,467,468,471,473,486
Seq#:74; N Pos. 490,492,495,497,500,504,505,512,515,537,542,550,562,566,570
Seq#:74; N Pos. 572
Seq#:95; N Pos. 222
Seq#:99; N Pos. 899
Seq#:100; N Pos. 597
Seq#:129; N Pos. 15
Seq#:164; Xaa Pos. 112,144
Seq#:190; Xaa Pos. 15,16
Seq#:199; Xaa Pos. 110,121,122,128,136
Seq#:200; Xaa Pos. 4,14,16,22,30,33,40,46,51,56
Seq#:202; Xaa Pos. 1,5,8,9,12,18,26,32,57
Seq#:204; Xaa Pos. 102,104,105,110,119,122,129,136,137
Seq#:206; Xaa Pos. 102,104,105,110,119,122,129,136,137
Seq#:208; Xaa Pos. 102,104,105,110,119,122,129,136,137
Seq#:210; Xaa Pos. 46,48,49,54,63,66,73,80,81
Seq#:242; Xaa Pos. 1,2,3,4
Seq#:248; Xaa Pos. 172
Seq#:255; Xaa Pos. 17,22,31,41,55,64,66,83,114,117,129
Seq#:256; Xaa Pos. 17,22,31,39,41,55,64,66,83,114,117,129
Seq#:257; Xaa Pos. 7,20,23,28,31,35,43,44,45,58,60,115,121,122,124,126,128
Seq#:258; Xaa Pos. 1,2,9,12,16,24,25,26,39,41,96,102,103,105,107,109,120
Seq#:273; Xaa Pos. 221
Seq#:278; Xaa Pos. 14
Seq#:287; Xaa Pos. 62
Seq#:289; Xaa Pos. 253,260
Seq#:294; Xaa Pos. 210
Seq#:295; Xaa Pos. 296
Seq#:299; Xaa Pos. 304,306,307,308,309,311,314,317,318,324
Seq#:320; Xaa Pos. 201,204
Seq#:340; Xaa Pos. 83,117
Seq#:341; Xaa Pos. 5
Seq#:342; Xaa Pos. 5

VERIFICATION SUMMARY

DATE: 10/28/2005

PATENT APPLICATION: US/10/553,436

TIME: 10:13:30

Input Set : N:\RJAVED\10553436.txt

Output Set: N:\CRF4\10282005\J553436.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:840

L:2353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0

L:2355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60

L:3382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:300

L:3384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:360

L:3386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:420

L:5964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0

L:5966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:60

L:5968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:120

L:5970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:180

L:5972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240

L:5974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:300

L:5976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:360

L:5978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:420

L:5980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:480

L:6259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0

L:6261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:60

L:6263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:120

L:6269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:300

L:6271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:360

L:6273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:420

L:6275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:480

L:6277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:540

L:7416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:180

L:7678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:840

L:7713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:540

L:9302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0

L:12354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:164 after pos.:96

L:12362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:164 after pos.:128

L:14734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:190 after pos.:0

L:15537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:96

L:15541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:112

L:15545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:128

L:15616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:0

L:15620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:16

L:15624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:32

L:15628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:48

L:15726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:0

L:15730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:16

L:15738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:48

L:15842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:96

L:15846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:112

L:15850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:128

L:15954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:96

L:15958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:112

L:15962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:128

VERIFICATION SUMMARY

DATE: 10/28/2005

PATENT APPLICATION: US/10/553,436

TIME: 10:13:30

Input Set : N:\RJAVED\10553436.txt

Output Set: N:\CRF4\10282005\J553436.raw

L:16066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:96
L:16070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:112
L:16074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:128
L:16174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:32
L:16178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:48
L:16182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:64
L:16186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:80
L:19716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0
L:20048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:248 after pos.:160
L:20555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:16
L:20559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:32
L:20563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:48
L:20567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:64
L:20571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:80
L:20579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:112
L:20583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:128
L:20670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:16
L:20674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:32
L:20678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:48
L:20682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:64
L:20686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:80
L:20694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:112
L:20698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:256 after pos.:128
L:20793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:0
L:20797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:16
L:20801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:32
L:20805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:48
L:20821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:112
L:20910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:0
L:20914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:16
L:20918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:32
L:20930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:80
L:20934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:96
L:20938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:258 after pos.:112
L:21833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273 after pos.:208
L:22082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278 after pos.:0
L:22643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:48
L:22837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289 after pos.:240
L:22841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289 after pos.:256
L:23150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:208
L:23239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295 after pos.:288
L:23495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:288
L:23499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:304
L:23503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:320
L:24790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:192
L:25526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:340 after pos.:80
L:25534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:340 after pos.:112
L:25551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:341 after pos.:0
L:25580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342 after pos.:0